

* * * * * STN Columbus * * * * *

FILE 'HOME' ENTERED AT 08:34:36 ON 04 MAY 2004

=> fil .bec

COST IN U.S. DOLLARS

SINCE FILE	TOTAL
ENTRY	SESSION
0.21	0.21

FULL ESTIMATED COST

FILES 'MEDLINE, SCISEARCH, LIFESCI, BIOTECHDS, BIOSIS, EMBASE, HCAPLUS, NTIS,
ESBIOBASE, BIOTECHNO, WPIDS' ENTERED AT 08:34:49 ON 04 MAY 2004
ALL COPYRIGHTS AND RESTRICTIONS APPLY. SEE HELP USAGETERMS FOR DETAILS.

11 FILES IN THE FILE LIST

=> s alpha amylase#

FILE 'MEDLINE'

474757 ALPHA

20774 AMYLASE#

L1 4607 ALPHA AMYLASE#

(ALPHA(W)AMYLASE#)

FILE 'SCISEARCH'

674661 ALPHA

16755 AMYLASE#

L2 7523 ALPHA AMYLASE#

(ALPHA(W)AMYLASE#)

FILE 'LIFESCI'

152504 "ALPHA"

4368 AMYLASE#

L3 2623 ALPHA AMYLASE#

("ALPHA"(W)AMYLASE#)

FILE 'BIOTECHDS'

25812 ALPHA

5263 AMYLASE#

L4 3246 ALPHA AMYLASE#

(ALPHA(W)AMYLASE#)

FILE 'BIOSIS'

621885 ALPHA

27540 AMYLASE#

L5 9831 ALPHA AMYLASE#

(ALPHA(W)AMYLASE#)

FILE 'EMBASE'

533622 "ALPHA"

15157 AMYLASE#

L6 3386 ALPHA AMYLASE#

("ALPHA"(W)AMYLASE#)

FILE 'HCAPLUS'

1472440 ALPHA

43594 AMYLASE#

L7 18090 ALPHA AMYLASE#

(ALPHA(W)AMYLASE#)

FILE 'NTIS'

28564 ALPHA

163 AMYLASE#

L8 60 ALPHA AMYLASE#

(ALPHA(W)AMYLASE#)

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FILE 'ESBIOBASE'
    191782 ALPHA
    4032 AMYLASE#
L9      1935 ALPHA AMYLASE#
        (ALPHA(W) AMYLASE#)

FILE 'BIOTECHNO'
    189431 ALPHA
    4194 AMYLASE#
L10     2130 ALPHA AMYLASE#
        (ALPHA(W) AMYLASE#)

FILE 'WPIDS'
    173434 ALPHA
    5418 AMYLASE#
L11     2229 ALPHA AMYLASE#
        (ALPHA(W) AMYLASE#)

TOTAL FOR ALL FILES
L12     55660 ALPHA AMYLASE#

=> s l12(5a)gene/q
FILE 'MEDLINE'
L13     584 L1 (5A) GENE/Q

FILE 'SCISEARCH'
L14     836 L2 (5A) GENE/Q

FILE 'LIFESCI'
L15     582 L3 (5A) GENE/Q

FILE 'BIOTECHDS'
L16     748 L4 (5A) GENE/Q

FILE 'BIOSIS'
L17     1005 L5 (5A) GENE/Q

FILE 'EMBASE'
L18     454 L6 (5A) GENE/Q

FILE 'HCAPLUS'
L19     1761 L7 (5A) GENE/Q

FILE 'NTIS'
L20     5 L8 (5A) GENE/Q

FILE 'ESBIOBASE'
L21     291 L9 (5A) GENE/Q

FILE 'BIOTECHNO'
L22     504 L10 (5A) GENE/Q

FILE 'WPIDS'
L23     161 L11 (5A) GENE/Q

TOTAL FOR ALL FILES
L24     6931 L12 (5A) GENE/Q

=> s hyperthermophil? or thermophil?
FILE 'MEDLINE'
    1553 HYPERTHERMOPHIL?
    7958 THERMOPHIL?
L25     9222 HYPERTHERMOPHIL? OR THERMOPHIL?

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FILE 'SCISEARCH'
    2252 HYPERTHERMOPHIL?
    13507 THERMOPHIL?
L26    15111 HYPERTHERMOPHIL? OR THERMOPHIL?

FILE 'LIFESCI'
    1232 HYPERTHERMOPHIL?
    7918 THERMOPHIL?
L27    8580 HYPERTHERMOPHIL? OR THERMOPHIL?

FILE 'BIOTECHDS'
    295 HYPERTHERMOPHIL?
    5392 THERMOPHIL?
L28    5460 HYPERTHERMOPHIL? OR THERMOPHIL?

FILE 'BIOSIS'
    1981 HYPERTHERMOPHIL?
    17889 THERMOPHIL?
L29    18584 HYPERTHERMOPHIL? OR THERMOPHIL?

FILE 'EMBASE'
    1493 HYPERTHERMOPHIL?
    8497 THERMOPHIL?
L30    9204 HYPERTHERMOPHIL? OR THERMOPHIL?

FILE 'HCAPLUS'
    2159 HYPERTHERMOPHIL?
    17933 THERMOPHIL?
L31    19612 HYPERTHERMOPHIL? OR THERMOPHIL?

FILE 'NTIS'
    31 HYPERTHERMOPHIL?
    486 THERMOPHIL?
L32    506 HYPERTHERMOPHIL? OR THERMOPHIL?

FILE 'ESBIOBASE'
    1390 HYPERTHERMOPHIL?
    4943 THERMOPHIL?
L33    6041 HYPERTHERMOPHIL? OR THERMOPHIL?

FILE 'BIOTECHNO'
    1309 HYPERTHERMOPHIL?
    6914 THERMOPHIL?
L34    7537 HYPERTHERMOPHIL? OR THERMOPHIL?

FILE 'WPIDS'
    57 HYPERTHERMOPHIL?
    2096 THERMOPHIL?
L35    2129 HYPERTHERMOPHIL? OR THERMOPHIL?

TOTAL FOR ALL FILES
L36    101986 HYPERTHERMOPHIL? OR THERMOPHIL?

=> s l24 and l36
FILE 'MEDLINE'
L37    31 L13 AND L25

FILE 'SCISEARCH'
L38    39 L14 AND L26

FILE 'LIFESCI'
L39    37 L15 AND L27

FILE 'BIOTECHDS'

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L40          96 L16 AND L28

FILE 'BIOSIS'
L41          48 L17 AND L29

FILE 'EMBASE'
L42          40 L18 AND L30

FILE 'HCAPLUS'
L43          70 L19 AND L31

FILE 'NTIS'
L44          1 L20 AND L32

FILE 'ESBIOBASE'
L45          26 L21 AND L33

FILE 'BIOTECHNO'
L46          41 L22 AND L34

FILE 'WPIDS'
L47          8 L23 AND L35

TOTAL FOR ALL FILES
L48          437 L24 AND L36

=> s l48 not 2002-2004/py
FILE 'MEDLINE'
      1267711 2002-2004/PY
L49          26 L37 NOT 2002-2004/PY

FILE 'SCISEARCH'
      2328235 2002-2004/PY
L50          33 L38 NOT 2002-2004/PY

FILE 'LIFESCI'
      204006 2002-2004/PY
L51          32 L39 NOT 2002-2004/PY

FILE 'BIOTECHDS'
      51431 2002-2004/PY
L52          90 L40 NOT 2002-2004/PY

FILE 'BIOSIS'
      1198431 2002-2004/PY
L53          41 L41 NOT 2002-2004/PY

FILE 'EMBASE'
      1061934 2002-2004/PY
L54          34 L42 NOT 2002-2004/PY

FILE 'HCAPLUS'
      2419872 2002-2004/PY
L55          58 L43 NOT 2002-2004/PY

FILE 'NTIS'
      26824 2002-2004/PY
L56          1 L44 NOT 2002-2004/PY

FILE 'ESBIOBASE'
      666483 2002-2004/PY
L57          21 L45 NOT 2002-2004/PY

FILE 'BIOTECHNO'

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244553 2002-2004/PY
L58 34 L46 NOT 2002-2004/PY

FILE 'WPIDS'

2414671 2002-2004/PY
L59 6 L47 NOT 2002-2004/PY

TOTAL FOR ALL FILES

L60 376 L48 NOT 2002-2004/PY

=> dup rem l60

PROCESSING COMPLETED FOR L60

L61 135 DUP REM L60 (241 DUPLICATES REMOVED)

=> d

L61 ANSWER 1 OF 135 HCAPLUS COPYRIGHT 2004 ACS on STN
TI Novel, thermostable family-13-like glycoside hydrolase from *Methanococcus jannaschii*
SO Folia Microbiologica (Prague, Czech Republic) (2001), 46(6), 475-481
CODEN: FOMIAZ; ISSN: 0015-5632
AU Kim, J.-W.; Terc, H. A.; Flowers, L. O.; Whiteley, M.; Peeples, T. L.
AN 2002:140158 HCAPLUS
DN 137:59380

=> d 2-10

L61 ANSWER 2 OF 135 MEDLINE on STN DUPLICATE 1
TI Biochemical confirmation and characterization of the family-57-like alpha-amylase of *Methanococcus jannaschii*.
SO Folia microbiologica, (2001) 46 (6) 467-73.
Journal code: 0376757. ISSN: 0015-5632.
AU Kim J W; Flowers L O; Whiteley M; Peeples T L
AN 2002167588 MEDLINE

L61 ANSWER 3 OF 135 MEDLINE on STN DUPLICATE 2
TI Novel glucoamylase-type enzymes from *Thermoactinomyces vulgaris* and *Methanococcus jannaschii* whose genes are found in the flanking region of the **alpha-amylase genes**.
SO Applied microbiology and biotechnology, (2001 Aug) 56 (3-4) 465-73.
Journal code: 8406612. ISSN: 0175-7598.
AU Uotsu-Tomita R; Tonoizuka T; Sakai H; Sakano Y
AN 2001499375 MEDLINE

L61 ANSWER 4 OF 135 MEDLINE on STN DUPLICATE 3
TI Cloning and expression of alpha-amylase from the **hyperthermophilic** archaeon *Pyrococcus woesei* in the moderately halophilic bacterium *Halomonas elongata*.
SO Journal of applied microbiology, (2000 Mar) 88 (3) 495-503.
Journal code: 9706280. ISSN: 1364-5072.
AU Frillingos S; Linden A; Niehaus F; Vargas C; Nieto J J; Ventosa A; Antranikian G; Drainas C
AN 2000212011 MEDLINE

L61 ANSWER 5 OF 135 BIOSIS COPYRIGHT 2004 BIOLOGICAL ABSTRACTS INC. on STN
TI Cloning and expression of the **gene** encoding novel **alpha**-**amylase** from *Sulfolobus shibatae* in *E. coli*.
SO Weishengwu Xuebao, (June, 2000) Vol. 40, No. 3, pp. 323-326. print.
CODEN: WSHPA8. ISSN: 0001-6209.
AU Liu Li [Reprint author]; Chen Wei [Reprint author]; Jin Cheng
AN 2001:49285 BIOSIS

L61 ANSWER 6 OF 135 BIOTECHDS COPYRIGHT 2004 THOMSON DERWENT/ISI on STN

TI Characterization of hygromycin-resistant transformants of
thermophilic fungus *Thermomyces lanuginosus*;
 plasmid pMP6-mediated hygromycin-resistance **gene** transfer
 together with **alpha-amylase**, glucoamylase,
 polygalacturonase and endo-1,4-beta-D-xylanase production
 SO World J.Microbiol.Biotechnol.; (2000) 16, 3, 303-06
 CODEN: WJMBEY ISSN: 0959-3993
 AU Chadha B S; Kaur R; Saini H S; Singh S
 AN 2000-10928 BIOTECHDS

L61 ANSWER 7 OF 135 MEDLINE on STN DUPLICATE 4
 TI Single-step purification of a recombinant thermostable alpha-amylase after
 solubilization of the enzyme from insoluble aggregates.
 SO Journal of chromatography. B, Biomedical sciences and applications, (2000
 Jan 14) 737 (1-2) 253-9.
 Journal code: 9714109. ISSN: 1387-2273.
 AU Linden A; Niehaus F; Antranikian G
 AN 2000143297 MEDLINE

L61 ANSWER 8 OF 135 SCISEARCH COPYRIGHT 2004 THOMSON ISI on STN
 TI Releasing profiles of gene products from recombinant *Escherichia coli* in a
 high-voltage pulsed electric field
 SO BIOCHEMICAL ENGINEERING JOURNAL, (JUN 2000) Vol. 5, No. 2, pp. 149-155.
 Publisher: ELSEVIER SCIENCE SA, PO BOX 564, 1001 LAUSANNE, SWITZERLAND.
 ISSN: 1369-703X.
 AU Ohshima T (Reprint); Hama Y; Sato M
 AN 2000:414547 SCISEARCH

L61 ANSWER 9 OF 135 MEDLINE on STN DUPLICATE 5
 TI Cloning and expression of an **alpha-amylase** encoding
gene from the **hyperthermophilic** archaeobacterium
Thermococcus hydrothermalis and biochemical characterisation of the
 recombinant enzyme.
 SO FEMS microbiology letters, (2000 May 1) 186 (1) 67-71.
 Journal code: 7705721. ISSN: 0378-1097.
 AU Leveque E; Haye B; Belarbi A
 AN 2000395702 MEDLINE

L61 ANSWER 10 OF 135 MEDLINE on STN DUPLICATE 6
 TI Engineering direct fructose production in processed potato tubers by
 expressing a bifunctional **alpha-amylase**/glucose
 isomerase **gene** complex.
 SO Biotechnology and bioengineering, (2000 Oct 5) 70 (1) 9-16.
 Journal code: 7502021. ISSN: 0006-3592.
 AU Beaujean A; Ducrocq-Assaf C; Sangwan R S; Lilius G; Bulow L;
 Sangwan-Norreel B S
 AN 2001028442 MEDLINE

=> d 11-20

L61 ANSWER 11 OF 135 BIOTECHDS COPYRIGHT 2004 THOMSON DERWENT/ISI on STN
 TI Production of recombinant **thermophilic** alpha-amylase activity
 at low pH;
Thermococcus hydrothermalis recombinant enzyme production via plasmid
 pEAMY101 and plasmid p662EL100 expression in *Escherichia coli*
 AU Leveque E; Belarbi A; Haye B
 AN 2000-03337 BIOTECHDS
 PI FR 2778412 12 Nov 1999

L61 ANSWER 12 OF 135 SCISEARCH COPYRIGHT 2004 THOMSON ISI on STN
 TI A unique chitinase with dual active sites and triple substrate binding
 sites from the **hyperthermophilic** archaeon *Pyrococcus*
kodakaraensis KOD1

SO APPLIED AND ENVIRONMENTAL MICROBIOLOGY, (DEC 1999) Vol. 65, No. 12, pp. 5338-5344.
 Publisher: AMER SOC MICROBIOLOGY, 1325 MASSACHUSETTS AVENUE, NW, WASHINGTON, DC 20005-4171.
 ISSN: 0099-2240.

AU Tanaka T; Fujiwara S; Nishikori S; Fukui T; Takagi M; Imanaka T (Reprint)
 AN 1999:949061 SCISEARCH

L61 ANSWER 13 OF 135 HCAPLUS COPYRIGHT 2004 ACS on STN
 TI Coordinate transcriptional control in the **hyperthermophilic** archaeon *Sulfolobus solfataricus*
 SO Journal of Bacteriology (1999), 181(13), 3920-3927
 CODEN: JOBAA; ISSN: 0021-9193
 AU Haseltine, Cynthia; Montalvo-Rodriguez, Rafael; Bini, Elisabetta; Carl, Audrey; Blum, Paul
 AN 1999:414107 HCAPLUS
 DN 131:195320

L61 ANSWER 14 OF 135 SCISEARCH COPYRIGHT 2004 THOMSON ISI on STN
 TI Purification and characterization of an extremely thermostable cyclomaltodextrin glucanotransferase from a newly isolated **hyperthermophilic** archaeon, a *Thermococcus* sp.
 SO APPLIED AND ENVIRONMENTAL MICROBIOLOGY, (MAY 1999) Vol. 65, No. 5, pp. 1991-1997.
 Publisher: AMER SOC MICROBIOLOGY, 1325 MASSACHUSETTS AVENUE, NW, WASHINGTON, DC 20005-4171.
 ISSN: 0099-2240.

AU Tachibana Y (Reprint); Kuramura A; Shirasaka N; Suzuki Y; Yamamoto T; Fujiwara S; Takagi M; Imanaka T
 AN 1999:353855 SCISEARCH

L61 ANSWER 15 OF 135 BIOSIS COPYRIGHT 2004 BIOLOGICAL ABSTRACTS INC. on STN
 TI Extragenic pleiotropic mutations that repress glycosyl hydrolase expression in the **hyperthermophilic** archaeon *Sulfolobus solfataricus*.
 SO Genetics, (Aug., 1999) Vol. 152, No. 4, pp. 1353-1361. print.
 CODEN: GENTAE. ISSN: 0016-6731.

AU Haseltine, Cynthia; Montalvo-Rodriguez, Rafael; Carl, Audrey; Bini, Elisabetta; Blum, Paul [Reprint author]
 AN 1999:416085 BIOSIS

L61 ANSWER 16 OF 135 BIOTECHDS COPYRIGHT 2004 THOMSON DERWENT/ISI on STN
 TI Fermentation of starch by *Klebsiella oxytoca* P2, containing plasmids with **alpha-amylase** and pullulanase **genes**; for use in enzyme production or ethanol production
 SO Biotechnol.Bioeng.; (1999) 65, 6, 673-76
 CODEN: BIBIAU ISSN: 0006-3592

AU dos Santos V L; Fernandes Araujo E; Goncalves de Barros E; Vieira Guimaraes W
 AN 2000-00826 BIOTECHDS

L61 ANSWER 17 OF 135 BIOTECHDS COPYRIGHT 2004 THOMSON DERWENT/ISI on STN
 TI Production of alpha-amylase in fed-batch cultures of vgb+ and vbg-recombinant *Escherichia coli*: some observations;
 Bacillus stearothermophilus recombinant enzyme production using host expressing (or not expressing) *Vitreoscilla* hemoglobin
 SO Biotechnol.Prog.; (1999) 15, 4, 640-45
 CODEN: BIPRET ISSN: 8756-7938

AU Enayati N; Tari C; *Parulekar S J; Stark B C; Webster D A
 AN 1999-11780 BIOTECHDS

L61 ANSWER 18 OF 135 HCAPLUS COPYRIGHT 2004 ACS on STN
 TI Purification and characterization of the heat-labile α -amylase secreted by the psychrophilic bacterium TAC 240B

SO Canadian Journal of Microbiology (1999), 45(6), 452-457
 CODEN: CJMIAZ; ISSN: 0008-4166
 AU Chessa, Jean-Pierre; Feller, Georges; Gerday, Charles
 AN 1999:504065 HCAPLUS
 DN 131:254106

L61 ANSWER 19 OF 135 BIOSIS COPYRIGHT 2004 BIOLOGICAL ABSTRACTS INC. on STN
 TI Close evolutionary relatedness of alpha-amylases from Archaea and plants.
 SO Journal of Molecular Evolution, (April, 1999) Vol. 48, No. 4, pp. 421-426.
 print.
 CODEN: JMEVAU. ISSN: 0022-2844.
 AU Janecek, Stefan [Reprint author]; Leveque, Emmanuel; Belarbi, Abdel; Haye, Bernard
 AN 1999:220372 BIOSIS

L61 ANSWER 20 OF 135 HCAPLUS COPYRIGHT 2004 ACS on STN
 TI Bioengineering of amylase and xylose isomerase thermozymes
 SO Special Publication - Royal Society of Chemistry (1999), 246 (Recent Advances in Carbohydrate Bioengineering), 253-262
 CODEN: SROCD0; ISSN: 0260-6291
 AU Zeikus, J. G.; Savchenko, A.; Sriprapundh, D.; Vieille, Claire
 AN 2000:29433 HCAPLUS
 DN 132:193269

=> d 21-30

L61 ANSWER 21 OF 135 HCAPLUS COPYRIGHT 2004 ACS on STN
 TI Amylase and 16S rRNA genes from a **hyperthermophilic** archaeobacterium
 SO Journal of Applied Microbiology (1999), 86(1), 93-107
 CODEN: JAMIFK; ISSN: 1364-5072
 AU Jones, R. A.; Jermin, L. S.; Easteal, S.; Patel, B. K. C.; Beacham, I. R.
 AN 1999:138511 HCAPLUS
 DN 131:40353

L61 ANSWER 22 OF 135 BIOTECHDS COPYRIGHT 2004 THOMSON DERWENT/ISI on STN
 TI Regulation of the expression of amy TO1 encoding a thermostable alpha-amylase from Streptomyces sp. TO1, in its original host and in Streptomyces lividans TK24;
 thermostable alpha-amylase production
 SO FEMS Microbiol. Lett.; (1999) 181, 1, 31-39
 CODEN: FMLED7 ISSN: 0378-1097
 AU Mellouli L; Guerinéau M; Bejar S; Virolle M J
 AN 2000-00399 BIOTECHDS

L61 ANSWER 23 OF 135 BIOTECHDS COPYRIGHT 2004 THOMSON DERWENT/ISI on STN
 TI Synthetic and excretion of alpha-amylase in vgb+ and vgb-recombinant Escherichia coli: a comparative study;
 Bacillus stearothermophilus recombinant alpha-amylase production
 SO Biotechnol. Bioeng.; (1998) 59, 6, 673-78
 CODEN: BIBIAU ISSN: 0006-3592
 AU Tari C; *Parulekar S J; Stark B C; Webster D A
 AN 1999-12957 BIOTECHDS

L61 ANSWER 24 OF 135 SCISEARCH COPYRIGHT 2004 THOMSON ISI on STN
 TI **Sequence** of archaeal Methanococcus jannaschii **alpha-amylase** contains features of families 13 and 57 of glycosyl hydrolases: A trace of their common ancestor?
 SO FOLIA MICROBIOLOGICA, (FEB 1998) Vol. 43, No. 2, pp. 123-128.
 Publisher: FOLIA MICROBIOLOGICA, INST MICROBIOLOGY, VIDENSKA 1083, PRAGUE 4, CZECH REPUBLIC 142 20.
 ISSN: 0015-5632.
 AU Janecek S (Reprint)

AN 1998:208636 SCISEARCH

L61 ANSWER 25 OF 135 HCAPLUS COPYRIGHT 2004 ACS on STN
TI Extracellular α -amylase from *Thermus filiformis* Ork A2: purification
and biochemical characterization
SO Extremophiles (1998), 2(1), 23-32
CODEN: EXTRFI; ISSN: 1431-0651
AU Egas, Maria C. V.; da Costa, Milton S.; Cowan, Don A.; Pires, Euclides M.
V.
AN 1998:144647 HCAPLUS
DN 128:241074

L61 ANSWER 26 OF 135 HCAPLUS COPYRIGHT 2004 ACS on STN
TI Hyperthermostable extracellular alpha-amylase from *pyrococcus furiosus*
SO Book of Abstracts, 216th ACS National Meeting, Boston, August 23-27
(1998), BTEC-019 Publisher: American Chemical Society, Washington, D. C.
CODEN: 66KYA2
AU Savchenko, A.; Dong, G.; Vieille, C.; Zeikus, G. J.
AN 1998:528470 HCAPLUS

L61 ANSWER 27 OF 135 MEDLINE on STN DUPLICATE 8
TI **alpha-Amylase gene of thermophilic**
Streptomyces sp. T01: nucleotide sequence, transcriptional and amino acid
sequence analysis.
SO FEMS microbiology letters, (1998 Mar 1) 160 (1) 17-23.
Journal code: 7705721. ISSN: 0378-1097.
AU Mellouli L; Ghorbel R; Virolle M J; Bejar S
AN 1998156111 MEDLINE

L61 ANSWER 28 OF 135 MEDLINE on STN DUPLICATE 9
TI Isolation and analysis of genes for amylolytic enzymes of the
hyperthermophilic bacterium *Thermotoga maritima*.
SO FEMS microbiology letters, (1998 Jan 1) 158 (1) 9-15.
Journal code: 7705721. ISSN: 0378-1097.
AU Bibel M; Brettl C; Gosslar U; Kriegshauser G; Liebl W
AN 1998115241 MEDLINE

L61 ANSWER 29 OF 135 BIOTECHDS COPYRIGHT 2004 THOMSON DERWENT/ISI on STN
TI Hyperthermostable extracellular alpha-amylase from *Pyrococcus furiosus*;
thermophilic bacterium recombinant enzyme production and
characterization (conference abstract)
SO Abstr.Pap.Am.Chem.Soc.; (1998) 216 Meet. Pt.3, BTEC019
CODEN: ACSRAL ISSN: 0065-7727
216th ACS National Meeting, Boston, MA, USA, 23-27 August, 1998, 216
Meet., Pt.3, 1998.
AU Savchenko A; Dong G; Vieille C; Zeikus G J
AN 1999-14174 BIOTECHDS

L61 ANSWER 30 OF 135 BIOTECHDS COPYRIGHT 2004 THOMSON DERWENT/ISI on STN
TI Vector for secretion for use in lactic acid bacteria, and production of a
protein by use of the vector;
recombinant enzyme e.g. amylase, peptidase or protease production
AN 1997-13446 BIOTECHDS
PI JP 09234078 9 Sep 1997

=> d 31-40

L61 ANSWER 31 OF 135 BIOTECHDS COPYRIGHT 2004 THOMSON DERWENT/ISI on STN
TI Termamyl-like alpha-amylase variants with improved properties;
enzyme engineering and expression in *Bacillus* spp.
AU Svensden A; Borchert T V; Bisgard-Frantzen H
AN 1998-01800 BIOTECHDS
PI WO 9741213 6 Nov 1997

L61 ANSWER 32 OF 135 HCAPLUS COPYRIGHT 2004 ACS on STN
 TI Cloning and expression of the **gene** encoding super-thermostable .
alpha.-amylase the **hyperthermophilic**
 Pyrococcus strain KOD-1, and characterization and use of the enzyme
 SO Jpn. Kokai Tokkyo Koho, 12 pp.
 CODEN: JKXXAF
 IN Imanaka, Tadayuki; Tachibana, Yoshinaga; Suzuki, Yuji; Kojima, Iwao;
 Utsura, Kensaku
 AN 1997:470120 HCAPLUS
 DN 127:77927

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 09173077	A2	19970708	JP 1996-191138	19960719

L61 ANSWER 33 OF 135 MEDLINE on STN DUPLICATE 11
 TI Cloning, sequencing, characterization, and expression of an extracellular
 alpha-amylase from the **hyperthermophilic** archaeon Pyrococcus
 furiosus in Escherichia coli and Bacillus subtilis.
 SO Journal of biological chemistry, (1997 Jun 27) 272 (26) 16335-42.
 Journal code: 2985121R. ISSN: 0021-9258.
 AU Jorgensen S; Vorgias C E; Antranikian G
 AN 97341170 MEDLINE

L61 ANSWER 34 OF 135 MEDLINE on STN DUPLICATE 12
 TI Application of the extracellular **alpha-amylase**
gene from Streptococcus bovis 148 to construction of a secretion
 vector for yogurt starter strains.
 SO Applied and environmental microbiology, (1997 Nov) 63 (11) 4593-6.
 Journal code: 7605801. ISSN: 0099-2240.
 AU Satoh E; Ito Y; Sasaki Y; Sasaki T
 AN 1998027396 MEDLINE

L61 ANSWER 35 OF 135 MEDLINE on STN DUPLICATE 13
 TI Cloning, sequencing, and expression of the **gene** encoding
 extracellular **alpha-amylase** from Pyrococcus furiosus
 and biochemical characterization of the recombinant enzyme.
 SO Applied and environmental microbiology, (1997 Sep) 63 (9) 3569-76.
 Journal code: 7605801. ISSN: 0099-2240.
 AU Dong G; Vieille C; Savchenko A; Zeikus J G
 AN 97438520 MEDLINE

L61 ANSWER 36 OF 135 MEDLINE on STN DUPLICATE 14
 TI Characterization of the gene encoding an extracellular laccase of
 Myceliophthora **thermophila** and analysis of the recombinant
 enzyme expressed in Aspergillus oryzae.
 SO Applied and environmental microbiology, (1997 Aug) 63 (8) 3151-7.
 Journal code: 7605801. ISSN: 0099-2240.
 AU Berka R M; Schneider P; Golightly E J; Brown S H; Madden M; Brown K M;
 Halkier T; Mondorf K; Xu F
 AN 97394941 MEDLINE

L61 ANSWER 37 OF 135 MEDLINE on STN DUPLICATE 15
 TI Properties and **gene** structure of the Thermotoga maritima
alpha-amylase AmyA, a putative lipoprotein of a
hyperthermophilic bacterium.
 SO Journal of bacteriology, (1997 Feb) 179 (3) 941-8.
 Journal code: 2985120R. ISSN: 0021-9193.
 AU Liebl W; Stemplinger I; Ruile P
 AN 97158692 MEDLINE

L61 ANSWER 38 OF 135 SCISEARCH COPYRIGHT 2004 THOMSON ISI on STN DUPLICATE
 16
 TI Study of stability of recombinant plasmids during the continuous culture

of *Bacillus stearothermophilus* NUB3621 in nonselective medium
SO BIOTECHNOLOGY AND BIOENGINEERING, (5 MAR 1997) Vol. 53, No. 5, pp.
507-514.
Publisher: JOHN WILEY & SONS INC, 605 THIRD AVE, NEW YORK, NY 10158-0012.
ISSN: 0006-3592.
AU Brigidi P (Reprint); GonzalezVara A; Rossi M; Matteuzzi D
AN 97:193236 SCISEARCH

L61 ANSWER 39 OF 135 LIFESCI COPYRIGHT 2004 CSA on STN DUPLICATE 17
TI Study of stability of recombinant plasmids during the continuous culture
of *Bacillus stearothermophilus* NUB3621 in nonselective medium
SO BIOTECHNOL. BIOENG., (1997) vol. 53, no. 5, pp. 507-514.
ISSN: 0006-3952.
AU Brigidi, P.; Gonzalez-Vara, A.; Rossi, M.; Matteuzzi, D.
AN 97:100335 LIFESCI

L61 ANSWER 40 OF 135 MEDLINE on STN DUPLICATE 18
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L61 ANSWER 42 OF 135 BIOTECHDS COPYRIGHT 2004 THOMSON DERWENT/ISI on STN
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L61 ANSWER 43 OF 135 EMBASE COPYRIGHT 2004 ELSEVIER INC. ALL RIGHTS
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STREPTOMYCES SP T01
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L61 ANSWER 47 OF 135 BIOTECHDS COPYRIGHT 2004 THOMSON DERWENT/ISI on STN
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gene from the **hyperthermophilic** archaeon Pyrococcus sp.
KOD1, and characterization of the enzyme;
thermostable enzyme purification, characterization and gene
over-expression from plasmid pET-8c in Escherichia coli
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CODEN: JFBIEX ISSN: 0922-338X
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L61 ANSWER 48 OF 135 BIOTECHDS COPYRIGHT 2004 THOMSON DERWENT/ISI on STN
TI Gram negative bacteria of increased competence;
Escherichia coli transformation with vector containing a
polynucleotide encoding **alpha-amylase gene**
and competency induction; application in genetic engineering
AU Greener A L
AN 1995-08712 BIOTECHDS
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of Pyrococcus furiosus;
facilitates use of enzyme in industrial processes when cloned in
Escherichia coli
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 TI Purified *Pyrococcus furiosus* thermostable alpha-amylase;
 used for industrial glucopolymer e.g. starch liquefaction at high
 temperature
 AN 1994-02942 BIOTECHDS
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L61 ANSWER 52 OF 135 BIOTECHDS COPYRIGHT 2004 THOMSON DERWENT/ISI on STN
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Pyrococcus woesei and *Pyrococcus furiosus* recombinant enzyme
 expression in *Bacillus* sp. for use in high temperature starch
 liquefaction or starch saccharification
 AN 1994-14387 BIOTECHDS
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L61 ANSWER 53 OF 135 BIOTECHDS COPYRIGHT 2004 THOMSON DERWENT/ISI on STN
 TI New DNA encoding hyper-thermostable alpha-amylase;
Pyrococcus furiosus recombinant pullulanase, alpha-glucosidase,
 beta-glucosidase or protease production in *Escherichia coli* or
Bacillus subtilis
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L61 ANSWER 55 OF 135 MEDLINE on STN DUPLICATE 28
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 gene cloning, characterization and phage EMBL3 expression in
Escherichia coli and *Bacillus subtilis*
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 TI SEQUENCE SIMILARITIES AND EVOLUTIONARY RELATIONSHIPS OF MICROBIAL, PLANT
 AND ANIMAL ALPHA-AMYLASES
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 ISSN: 0014-2956.
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L61 ANSWER 58 OF 135 BIOTECHDS COPYRIGHT 2004 THOMSON DERWENT/ISI on STN
 TI Synthesis of branched oligosaccharides from starch by two amylases cloned

from Bacillus licheniformis;
maltogenic and thermostable **alpha-amylase**
gene cloning and expression in Escherichia coli for use in
starch liquefaction and saccharification for branched oligosaccharide
production

SO Biosci.Biotechnol.Biochem.; (1994) 58, 2, 416-18

CODEN: BBBIEJ

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SUBFAMILIES

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L61 ANSWER 60 OF 135 BIOTECHDS COPYRIGHT 2004 THOMSON DERWENT/ISI on STN

TI Recombinant DNA expression in amylase-deficient or protease-deficient
Bacillus licheniformis;

for production of cyclomaltodextrin-glucanotransferase, pullulanase or
glucose-isomerase

AN 1993-09547 BIOTECHDS

PI WO 9310248 27 May 1993

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